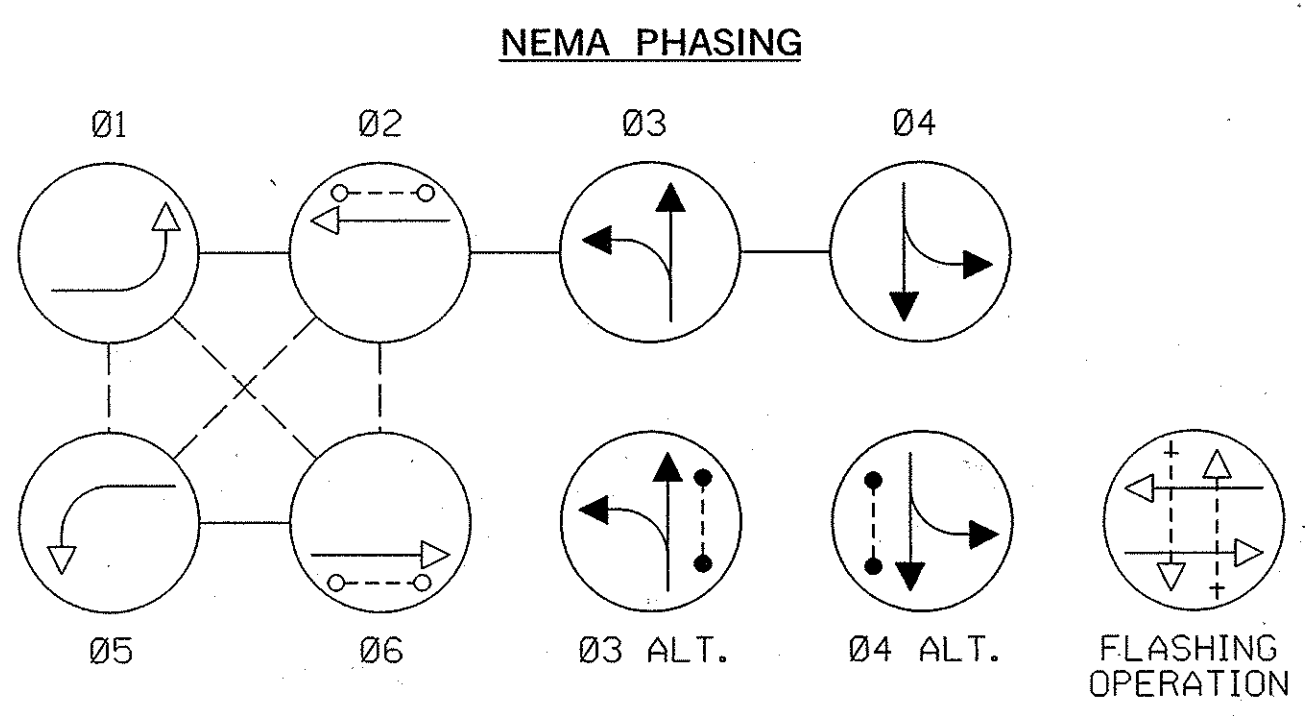
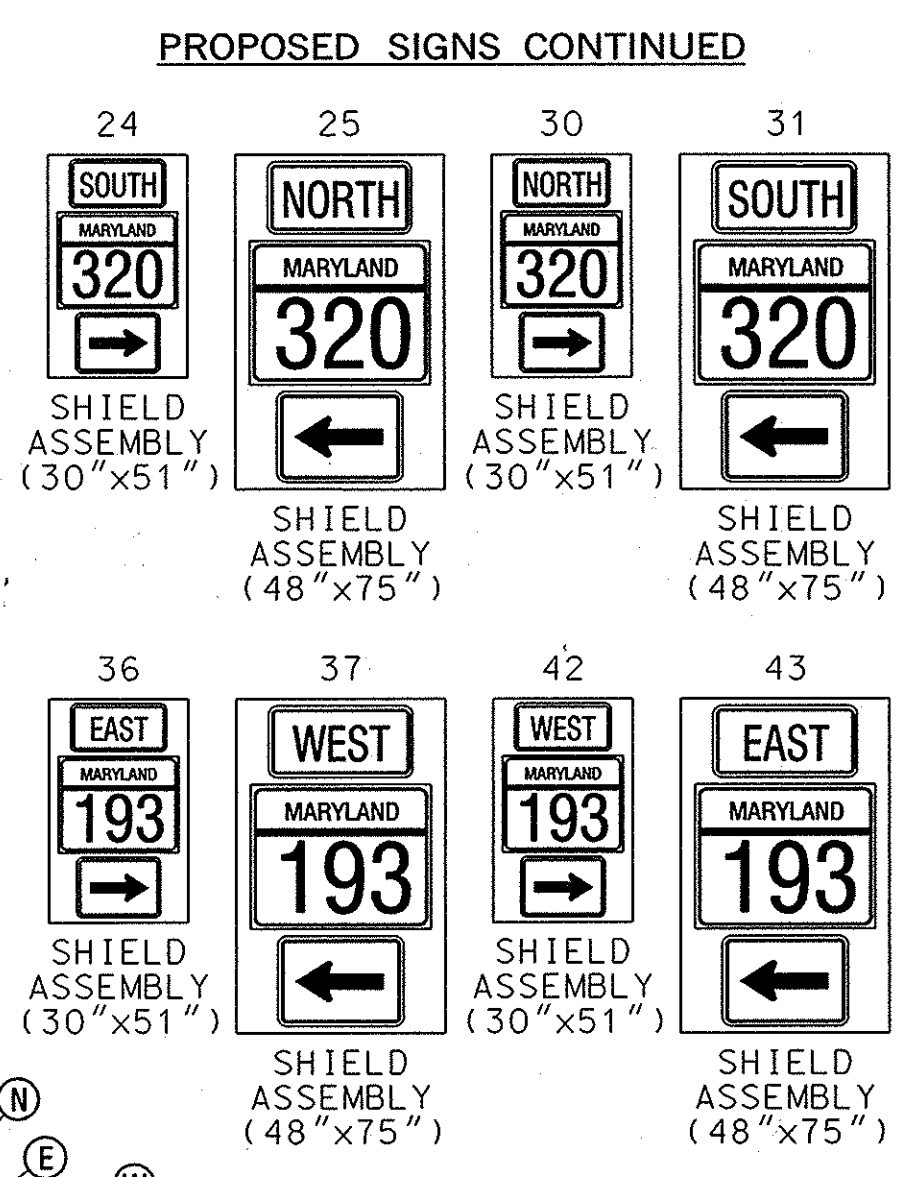
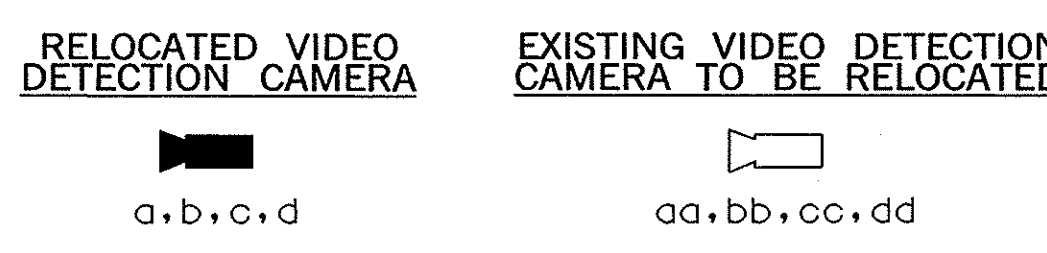
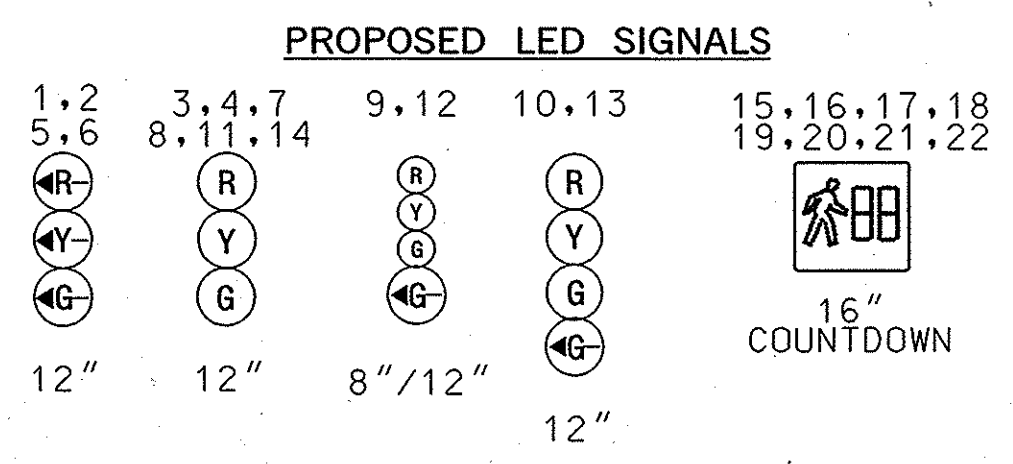
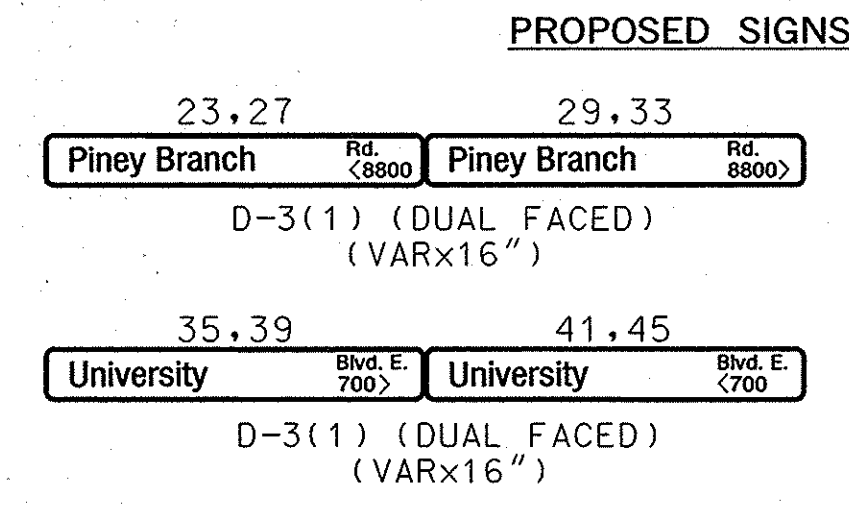


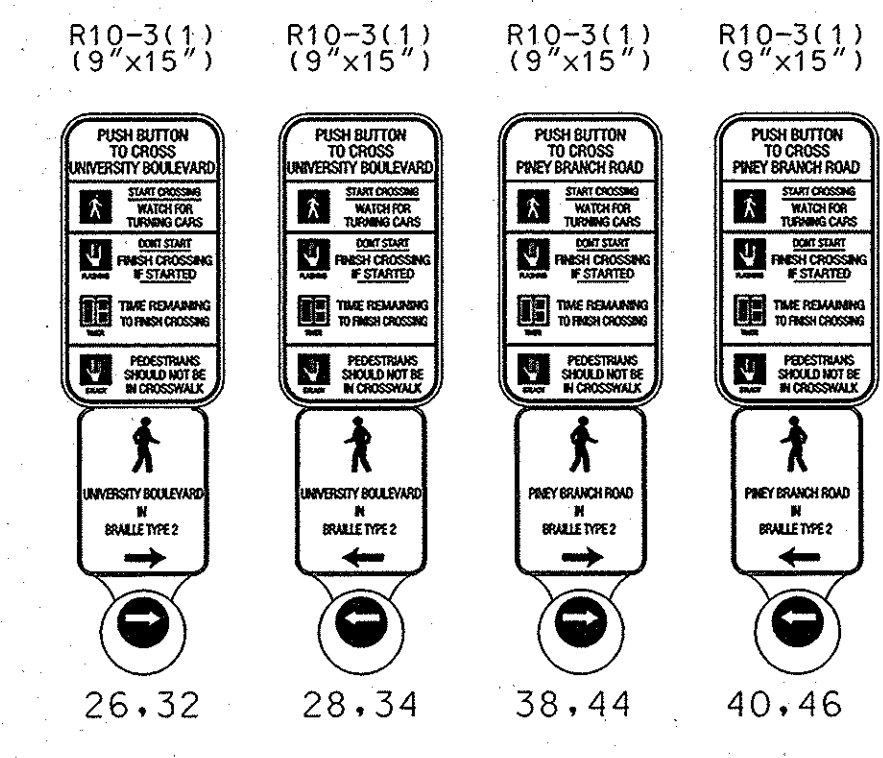
MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



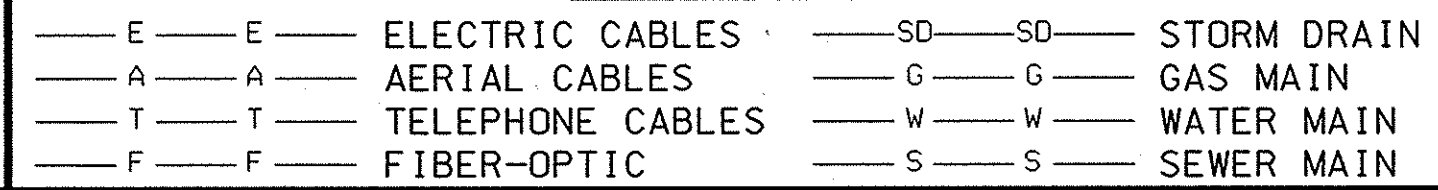
PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN



CONSTRUCTION DETAILS

- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE BENDS).
- INSTALL 27 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, 50 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BOULEVARD", RELOCATED VIDEO DETECTION CAMERA (INSTALL NEW CONTROL CABLE), AND SIGNS (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
- INSTALL 27 FT. STEEL POLE WITH A 15 FT. LOWER "T" DIMENSION, 38 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS PINEY BRANCH ROAD", RELOCATED VIDEO DETECTION CAMERA, (INSTALL NEW CONTROL CABLE), SIGNS AND 20 FT. LIGHTING ARM FOR MONTGOMERY COUNTY SURVEILLANCE CAMERA - SEE NOTE 14. (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
- INSTALL 27 FT. STEEL POLE WITH A 15 FT. LOWER "T" DIMENSION, 50 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BOULEVARD", RELOCATED VIDEO DETECTION CAMERA (INSTALL NEW CONTROL CABLE), 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE AND SIGNS. (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
- INSTALL 27 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, 60 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BOULEVARD", RELOCATED VIDEO DETECTION CAMERA (INSTALL NEW CONTROL CABLE) AND SIGNS (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSHBUTTON TO CROSS UNIVERSITY BOULEVARD" OR "PINEY BRANCH ROAD" (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
- INSTALL 3 IN. PVC CONDUIT RISER ON EXISTING UTILITY POLE.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND POWER SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED INTERCONNECT.
- INSTALL 12 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- INSTALL 24 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- EXISTING SURVEILLANCE CAMERA AND CABINET TO BE RELOCATED BY MONTGOMERY COUNTY (SEE NOTE 14).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED).
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL METERED SERVICE PEDESTAL.
- INSTALL ELECTRICAL HANDHOLE.
- REMOVE EXISTING ELECTRICAL HANDHOLE.
- RELOCATE EXISTING VIDEO DETECTION CAMERA TO NEW MAST ARM.
- REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT.

UTILITY LEGEND



- GENERAL NOTES**
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 - THE CONTRACTOR SHALL CONTACT MCDPMW/TMC AT 240-777-2100, 72 HOURS PRIOR TO MARK UNDERGROUND SIGNAL EQUIPMENT.
 - MONTGOMERY COUNTY WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
 - VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
 - SEE GENERAL INFORMATION SHEET FOR CONTROLLER, SIGNAL POLE, APS ASSOCIATED SIGNAL HEADS AND PUSHBUTTONS, VIDEO DETECTION CAMERA, TRAFFIC SIGNAL HEAD, AND SIGN LAYOUTS.
 - WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
 - ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MD SHA STANDARDS.
 - THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
 - ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 - ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
 - ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO MONTGOMERY COUNTY FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. KEITH LORD TO COORDINATE AT 301-279-1291.
 - THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMPS.
 - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
 - THE CONTRACTOR SHALL NOTIFY MR. MICHAEL KINNEY AT 240-777-8760 TWO WEEKS PRIOR TO CONSTRUCTION FOR THE RELOCATION OF THE MONTGOMERY COUNTY CAMERA AND CABINET.
 - THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL. (SEE TEMPORARY SIGNAL PLAN AND TRAFFIC CONTROL PLANS FOR DETAILS ON MAINTENANCE OF TRAFFIC.)
 - IF THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST BE CHANGED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO OBTAIN APPROVAL FOR THE NEW LOCATION TO ENSURE MUTCD SEC. 4E.09 & FIG. 4E-2 REQUIREMENTS ARE MET. ALL WORK MUST BE HALTED UNTIL THE PROJECT ENGINEER HAS OBTAINED AN APPROVED LOCATION OR IF NECESSARY A DESIGN WAIVER IS OBTAINED.
 - THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND SIGNAL EQUIPMENT PRIOR TO SIDEWALK RECONSTRUCTION.
 - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
 - POLES ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" X 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS A LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 193 (UNIVERSITY BOULEVARD) AT MD 320 (PINEY BRANCH ROAD)

APPROVALS	REVISIONS	TRAFFIC SIGNALIZATION PLAN	
TEAM LEADER ASST. DIV. DIVISION CHIEF OFFICE DIRECTOR	1. FULL SIGNAL RE-CONSTRUCTION DUE TO GEOMETRIC MODIFICATIONS SHA # M03945187 APRIL 2007 2. TEMPORARY SIGNAL TO SUPPORT MOT DUE TO GEOMETRIC MODIFICATIONS SHA # M03945187 4/2007 3. REPLACE LOOP DETECTION WITH VIDEO CAMERAS	SCALE 1"=20' DATE 10/08/07 CONTRACT NO. MO717545684	DESIGNED BY W. MALCOLM COUNTY MONTGOMERY DRAWN BY LOGMILE 15019306.15 CHECKED BY T.I.M.S. NO. H325 F.A.P. NO. SEE TITLE SHEET TOD NO. MO717-09
DRAWING NO. TS-3661E OF SHEET NO. 1 OF 3			

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BY: SHAPPSB